

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Previously presented). A storage-stable, liquid, partially trimerized and allophanized polyisocyanate having an NCO group content of 15 to 41% by weight, and comprising the partial trimerization and allophanation product of:

- (A) from 5 to 85% by weight of toluene diisocyanate having an isomer distribution of:
 - (1) from 60 to 100% by weight of the 2,4-isomer,
and
 - (2) from 0 to 40% by weight of the 2,6-isomer, with the sum of the %'s by weight of (A)(1) and (A)(2) totaling 100% by weight of (A);

and

- (B) from 5 to 85% by weight of a polyisocyanate of the diphenylmethane series comprising:
 - (1) from 0 to 50% by weight of polyisocyanates of the diphenylmethane series having an isocyanate functionality greater than 2,
 - (2) from 40 to 100% by weight of 4,4'-diphenylmethane diisocyanate,
 - (3) from 0 to 20% by weight of 2,4'-diphenylmethane diisocyanate,
- and
- (4) from 0 to 6% by weight of 2,2'-diphenylmethane diisocyanate,
- with the sum of the %'s by weight of (B)(1), (B)(2), (B)(3) and (B)(4) totaling 100% by weight of (B);

and

- (C) from 0.1 to 10% by weight of an organic compound or mixture thereof containing from 1 to 4 hydroxyl groups capable of reacting with NCO groups and having a molecular weight of from 32 to 6000

wherein the sum of the %'s by weight of (A), (B) and (C) total 100% by weight.

Claim 2 (Previously presented). A storage-stable, liquid, partially trimerized and allophanized polyisocyanate according to Claim 1, wherein the storage-stable, liquid, partially trimerized polyisocyanate composition has an NCO group content of about 17 to about 39% by weight, and comprises:

- (A) from 10 to 80% by weight of toluene diisocyanate having an isomer distribution of:
- (1) from 60 to 100% by weight of the 2,4-isomer,
and
 - (2) from 0 to 40% by weight of the 2,6-isomer, with the sum of the %'s by weight of (A)(1) and (A)(2) totaling 100% by weight of (A);

and

- (B) from 10 to 80% by weight of a polyisocyanate of the diphenylmethane series comprising:
- (1) from 0 to 50% by weight of polyisocyanates of the diphenylmethane series having an isocyanate functionality greater than 2,
 - (2) from 40 to 100% by weight of 4,4'-diphenylmethane diisocyanate,
 - (3) from 0 to 20% by weight of 2,4'-diphenylmethane diisocyanate,
- and
- (4) from 0 to 6% by weight of 2,2'-diphenylmethane diisocyanate,

with the sum of the %'s by weight of (B)(1), (B)(2), (B)(3) and (B)(4) totaling 100% by weight of (B);

and

(C) from 0.1 to 10% by weight of an organic compound or mixture thereof containing from 1 to 4 hydroxyl groups capable of reacting with NCO groups and having a molecular weight of from 32 to 6000;

wherein the sum of the %'s by weight of (A), (B) and (C) total 100% by weight.

Claim 3 (Original). A storage-stable, liquid, partially trimerized and allophanized polyisocyanate according to Claim 1, wherein (C) is an aliphatic alcohol having from 1 to 36 carbon atoms or an aromatic alcohol having from 5 to 20 carbon atoms.

Claim 4 (Original). A storage-stable, liquid, partially trimerized and allophanized polyisocyanate according to Claim 3, wherein (C) is chosen from at least one of methanol, ethanol, 1,2-ethanediol, 1-propanol, 2-propanol, 1-butanol, isobutyl alcohol, 2-butanol, n-amyl alcohol, sec-amyl alcohol, tert-amyl alcohol, 1-ethyl-1-propanol, n-hexanol and isomers thereof, n-octyl alcohol, 2-octyl alcohol, 2-ethyl-1-hexanol, n-decyl alcohol, n-dodecyl alcohol, neopentylglycol, n-tetradecyl alcohol, n-hexadecyl alcohol, n-octadecyl alcohol, 1,2 and 1,3-propanediol, 1,4-butanediol, 1,3-butanediol, 2,3-butanediol, 3-methyl-2-butanol, 3,3-dimethyl-1-butanol, 2-ethyl-1,3-hexanediol, glycerol, 1,2,4-butanetriol, pentaerythritol, diethylene glycol, dipropylene glycol, diethylene glycol, triethylene glycol and phenol.

Claim 5 (Original). A storage-stable, liquid, partially trimerized and allophanized polyisocyanate according to Claim 4, wherein (C) is isobutyl alcohol.

Claim 6 (Currently amended). A process for the preparation of a storage-stable, liquid, partially trimerized and allophanized polyisocyanate composition containing isocyanurate groups and having an NCO group content of about 15 to about 41% by weight, comprising:

(1) partially trimerizing and allophanizing:

(A) from 5 to 85% by weight of toluene diisocyanate having an isomer distribution of:

**(1) from 60 to 100% by weight of the 2,4-isomer,
and**

(2) from 0 to 40% by weight of the 2,6-isomer, with the sum of the %'s by weight of (A)(1) and (A)(2) totaling 100% by weight of (A);

and

(B) from 5 to 85% by weight of a polyisocyanate of the diphenylmethane series comprising:

(1) from 0 to 50% by weight of polyisocyanates of the diphenylmethane series having an isocyanate functionality greater than 2,

(2) from 40 to 100% by weight of 4,4'-diphenylmethane diisocyanate,

(3) from 0 to 20% by weight of 2,4'-diphenylmethane diisocyanate,

and

(4) from 0 to 6% by weight of 2,2'-diphenylmethane diisocyanate,

with the sum of the %'s by weight of (B)(1), (B)(2), (B)(3) and (B)(4) totaling 100% by weight of (B);

and

(C) from 0.1 to 10% by weight of an organic compound or mixture thereof containing from 1 to 4 hydroxyl groups capable of reacting with NCO groups and having a molecular weight of from 32 to 6000;

wherein the sum of the %'s by weight of (A), (B) and (C) total 100% by weight.

in the presence of:

~~(D)~~~~(C)~~ at least one trimerization catalyst and optionally at least one allophanation catalyst,

followed by addition of:

~~(E)~~~~(D)~~ an acidic stopper.

Claim 7 (Previously presented). The process of Claim 6, wherein the storage-stable, liquid, partially trimerized and allophanized polyisocyanate composition has an NCO group content of about 17 to about 39% by weight, and comprises:

- (A) from 10 to 80% by weight of toluene diisocyanate having an isomer distribution of:
 - (1) from 60 to 100% by weight of the 2,4-isomer, and
 - (2) from 0 to 40% by weight of the 2,6-isomer, with the sum of the %'s by weight of (A)(1) and (A)(2) totaling 100% by weight of (A);

and

- (B) from 10 to 80% by weight of a polyisocyanate of the diphenylmethane series comprising:
 - (1) from 0 to 50% by weight of polyisocyanates of the diphenylmethane series having an isocyanate functionality greater than 2,
 - (2) from 40 to 100% by weight of 4,4'-diphenylmethane diisocyanate,
 - (3) from 0 to 20% by weight of 2,4'-diphenylmethane diisocyanate,
- and
- (4) from 0 to 6% by weight of 2,2'-diphenylmethane

diisocyanate,
with the sum of the %'s by weight of (B)(1), (B)(2), (B)(3) and
(B)(4) totaling 100% by weight of (B);
and
(C) from 0.1 to 10% by weight of an organic compound or mixture
thereof containing from 1 to 4 hydroxyl groups capable of
reacting with NCO groups and having a molecular weight of
from 32 to 6000
wherein the sum of the %'s by weight of (A), (B) and (C) total 100% by
weight.

Claim 8 (Original). A process according to Claim 6, wherein (C) is an
aliphatic alcohol having from 1 to 36 carbon atoms or an aromatic alcohol having
from 5 to 20 carbon atoms.

Claim 9 (Original). A process according to Claim 8, wherein (C) is chosen
from at least one of methanol, ethanol, 1,2-ethanediol, 1-propanol, 2-propanol, 1-
butanol, isobutyl alcohol, 2-butanol, n-amyl alcohol, sec-amyl alcohol, tert-amyl
alcohol, 1-ethyl-1-propanol, n-hexanol and isomers thereof, n-octyl alcohol, 2-octyl
alcohol, 2-ethyl-1-hexanol, n-decyl alcohol, n-dodecyl alcohol, neopentylglycol, n-
tetradecyl alcohol, n-hexadecyl alcohol, n-octadecyl alcohol, 1,2 and 1,3-
propanediol, 1,4-butanediol, 1,3-butanediol, 2,3-butanediol, 3-methyl-2-butanol, 3,3-
dimethyl-1-butanol, 2-ethyl-1,3-hexanediol, glycerol, 1,2,4-butanetriol,
pentaerythritol, diethylene glycol, dipropylene glycol, diethylene glycol, triethylene
glycol and phenol.

Claim 10 (Original). A process according to Claim 9, wherein (C) is isobutyl
alcohol.

Claim 11 (Cancelled).

Claim 12 (Cancelled).

Claim 13 (Cancelled).

Claim 14 (Cancelled).

Claim 15 (Cancelled).

Claim 16 (Cancelled).

Claim 17 (Cancelled).

Claim 18 (Cancelled).

Claim 19 (Currently amended). A process for preparing a storage-stable, liquid, partially trimerized and allophanized polyisocyanate composition containing isocyanurate groups and having an NCO group content of about 15 to about 41% by weight, comprising:

(1) partially trimerizing and allophanizing:

(A) from 5 to 85% by weight of toluene diisocyanate having an isomer distribution of:

(1) from 60 to 100% by weight of the 2,4-isomer,
and

(2) from 0 to 40% by weight of the 2,6-isomer, with the sum of the %'s by weight of (A)(1) and (A)(2) totaling 100% by weight of (A);

and

(B) from 5 to 85% by weight of a polyisocyanate of the diphenylmethane series comprising:

(1) from 0 to 50% by weight of polyisocyanates of the diphenylmethane series having an isocyanate

functionality greater than 2,

(2) from 40 to 100% by weight of 4,4'-diphenylmethane diisocyanate,

(3) from 0 to 20% by weight of 2,4'-diphenylmethane diisocyanate,

and

(4) from 0 to 6% by weight of 2,2'-diphenylmethane diisocyanate,

with the sum of the %'s by weight of (B)(1), (B)(2), (B)(3) and (B)(4) totaling 100% by weight of (B);

and

(C) from 0.1 to 10% by weight of an organic compound or mixture thereof containing from 1 to 4 hydroxyl groups capable of reacting with NCO groups and having a molecular weight of from 32 to 6000;

wherein the sum of the %'s by weight of (A), (B) and (C) total 100% by weight

in the presence of:

~~(D)~~(C) at least one trimerization catalyst and optionally at least one allophanation catalyst,

followed by the addition of:

~~(E)~~(D) an acidic stopper; and

(2) blending

~~(F)~~(E) a polyisocyanate of the diphenylmethane series comprising:

(1) from 0 to 50% by weight, based on total weight of ~~(F)~~(E), of polyisocyanates of the diphenylmethane series having an isocyanate functionality greater than 2,

(2) from 30 to 60% by weight, based on total weight of ~~(F)~~(E), of 4,4'-MDI,

(3) from 3 to 60% by weight, based on total weight of ~~(F)~~(E), of 2,4'-MDI; and

(4) from 0 to 6% by weight, based on total weight of ~~(F)~~(E), of 2,2'-MDI; or

~~(G)~~(F) a uretonimine modified polyisocyanates of the diphenylmethane series comprising:

(1) from 34 to 100% by weight, based on total weight of (G)~~(F)~~, of 4,4'-MDI,

(2) from 0 to 60% by weight, based on total weight of ~~(G)~~(F), of 2,4'-MDI, and

(3) from 0 to 6% by weight, based on total weight of ~~(G)~~(F), of 2,2'-MDI.